

# USDA Food Safety and Inspection Service



**FSIS**

# FSIS Laboratory Overview

NACMPI Meeting

November 5, 2003

Washington, D.C.



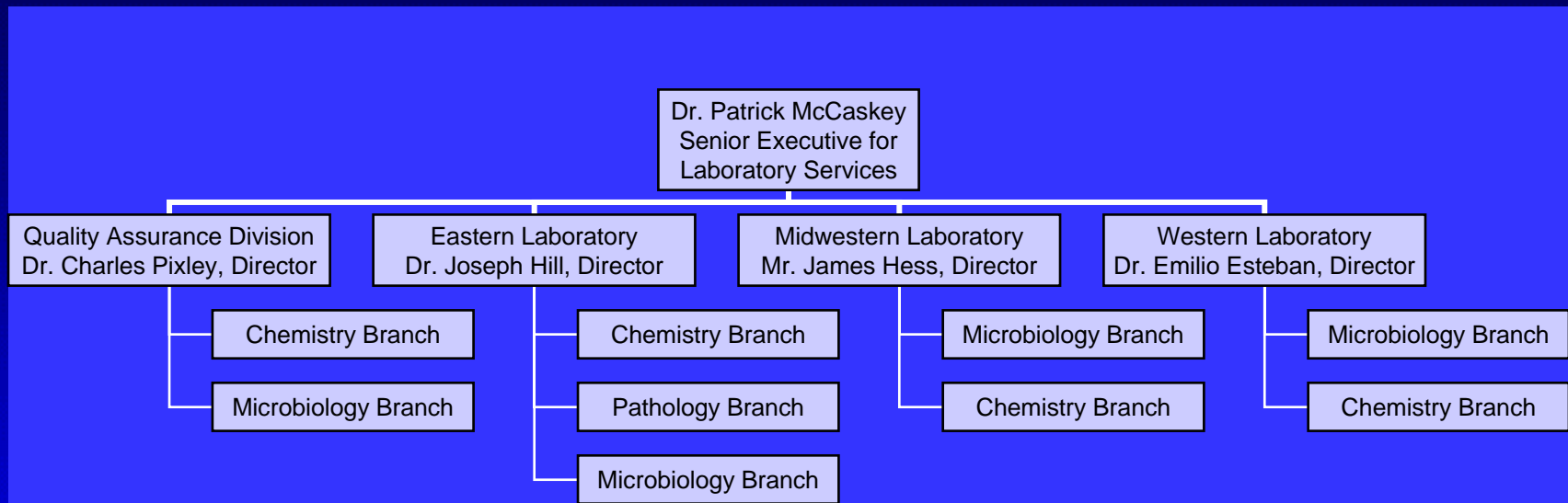
# Laboratory Overview

- Locations
- Organization
- Functions
- Capabilities
- ISO Accreditation
- LIMS
- LEARN
- eSample
- Food Security
- FERN

# FSIS Laboratories



# THE FSIS LABORATORY SYSTEM



# WESTERN LABORATORY

Alameda, California





# MIDWESTERN LABORATORY

St. Louis, Missouri



# EASTERN LABORATORY

Russell Research Center

Athens, Georgia



# Microbial Outbreaks and Special Projects Laboratory (MOSPL)

Russell Research Center

Athens, Georgia

# QUALITY ASSURANCE DIVISION

Russell Research Center  
Athens, Georgia





















### Analyses Performed at each FSIS Laboratory

Type of Analysis	Western Lab	Midwestern Lab	Eastern Lab	Microbial Outbreaks and Special Projects Lab
Extraneous Materials		X	X	
Food Chemistry			X	
Microbiology				
--canned foods	X		X	
--egg products	X	X	X	
--PR/HACCP <i>Salmonella</i>	X	X	X	
--raw ground beef for <i>E. coli</i> O157:H7	X	X	X	
--ready to eat meat and poultry	X	X	X	
Nutritional Labeling			X	
Outbreak-related samples				X
Pathology			X	
Residue Chemistry	X	X	X	
--100 – Chlorinated Hydrocarbons	X			
-- 200 – Antibiotics		X		
-- 203 – Chloramphenicol			X	
-- 222 – Tilimicosin		X		
-- 300 – Chlorinated Organo-phosphates	X			
-- 400 – Trace Metals			X	
-- 401 – Arsenic			X	
-- 501 – DES		X		
-- 504 – MGA		X		
-- 561 – Clenbuterol		X		
-- 565 – Ractopamine		X		
-- 800 – Sulfanomides		X	X	
-- 907 – Carbadox		X		
-- 960 – Nitroimidazoles		X		
-- 981 – Phenylbutazone	X			
-- 982 – Flunixin		X		
-- 990 – Avermectin			X	
Species Identification			X	

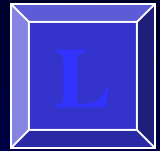
# ISO Standard 17025

- International Organization for Standardization
- “Gold Standard” for testing laboratories
- All 4 FSIS labs accredited
- One quality system for labs
- Leading/assisting other labs



# Laboratory Information Management System (LIMS)

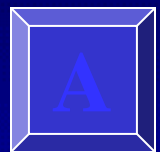
# L E A R N



**Laboratory**



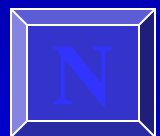
**Electronic**



**Application**



**for Results**



**Notification**

# Who Will Receive Results Via LEARN?

- Inspection Personnel
- Enforcement Personnel
- Circuit Supervisors
- Districts
- Technical Services Center
- Headquarters Personnel
- Establishment Management (through  
their Internet e-mail)
- State Officials (through their Internet e-mail)

# Listing of Results for an Establishment

Recall Web - Microsoft Internet Explorer

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Offline

Links Alexa Address http://dchqins1/apps/lra1/estlist1a.cfm Go

## LAB RESULTS REPORTING APPLICATION

FSISnet.gov >> where ideas and information intersect applications  
> lab results for establishment 00199N M

**Establishment: 00199N M**

Collection Date	Form No.	Product Held	Sample Type	Result	Date Posted	Action Taken
07/24/2000	00864034	N	<u>Residue</u>	Not Detected	12/12/2000	<input type="checkbox"/>
07/24/2000		N	<u>Residue</u>	<b>VIOLATIVE</b>	12/12/2000	<input type="checkbox"/>
07/25/2000	00864041	N	<u>Residue</u>	Not Detected	12/12/2000	<input type="checkbox"/>
08/18/2000	00866791	N	<u>Residue</u>	Not Detected	12/12/2000	<input type="checkbox"/>
09/14/2000	00869544	N	<u>Residue</u>	Not Detected	12/12/2000	<input type="checkbox"/>
09/13/2000	00869778	N	<u>Residue</u>	Not Detected	12/12/2000	<input type="checkbox"/>
09/13/2000		N	<u>Residue</u>	Not Detected	12/12/2000	<input type="checkbox"/>
09/14/2000	00957694	N	<u>Food Chem</u>	Acceptable	12/12/2000	<input type="checkbox"/>
09/21/2000	00957695	N	<u>Food Chem</u>	Acceptable	12/12/2000	<input type="checkbox"/>
09/18/2000	11011084	Y	<u>Microbiology</u>	Acceptable	12/12/2000	<input type="checkbox"/>

Done Local intranet

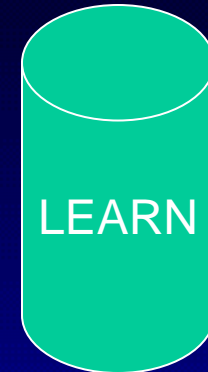
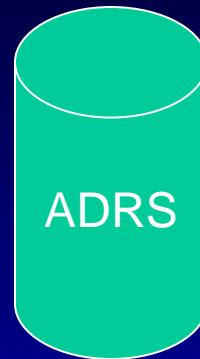
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eSample

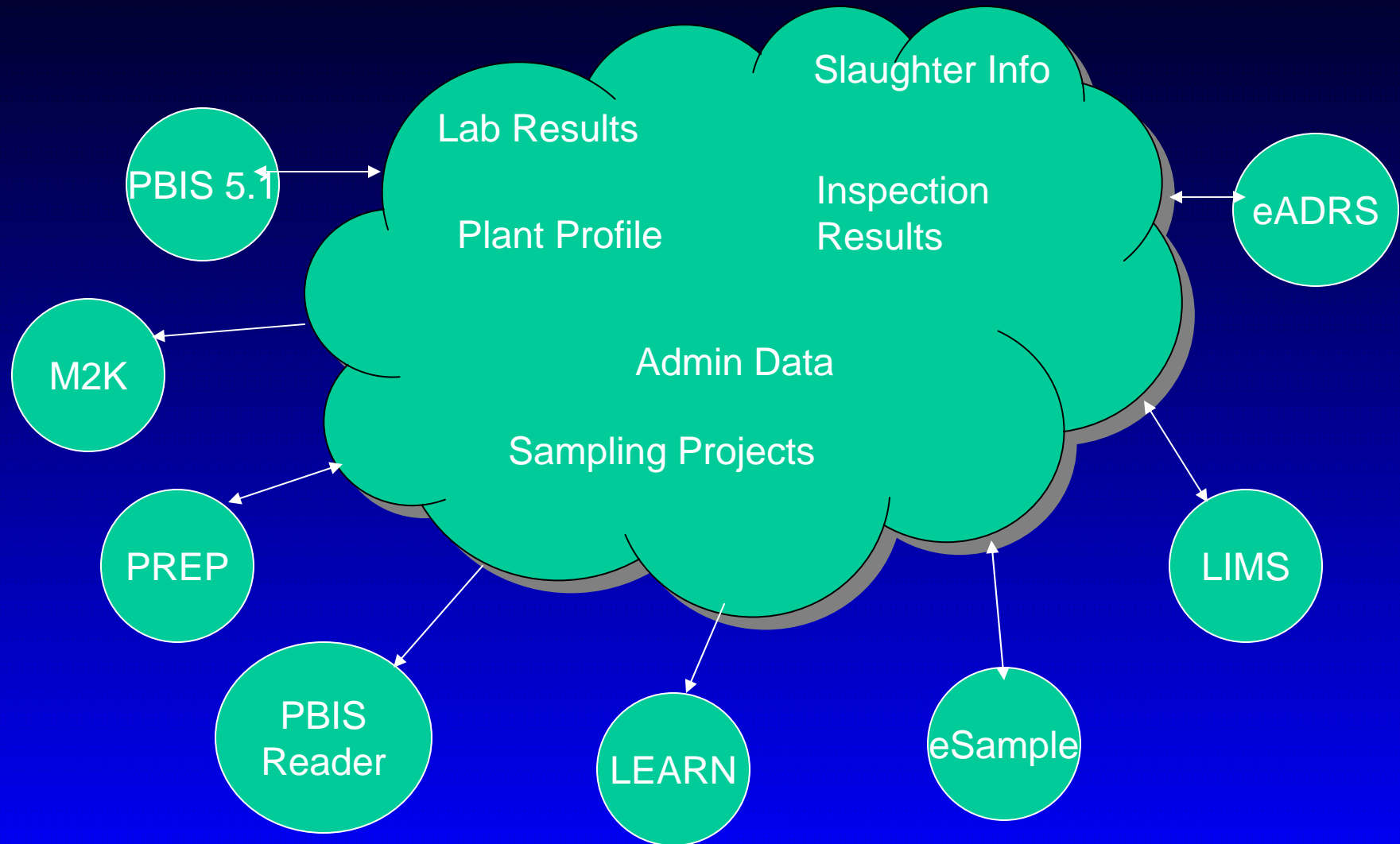
File Reports Help



# TODAY



# TOMORROW



## New Analysis Request



### Product Information

Name of Product (as labeled)

Yummy Burgers

Production Date

10/10/2003

Lot Number

223344

Product Held?

☒ Yes

☐ No

?

Identifiers

Schedule

Comments

☐ Final?

Save

### Collection Information

Collector

Patricia Abraham

Date Collected

10/10/2003

Collector Phone #

(215) 463-3600

Date Shipped

10/10/2003

Seal #

556677

Laboratory

Eastern Lab

### Additional Information

#	Question	Answer
1	How many pounds are in this product lot?	5000
2	Pounds of ground beef this establishment pro...	1,000 to 50,000 lbs.
3	Non-FSIS contact person for sample results	John Doe
4	Non-FSIS contact phone number (daytime)	(215) 463-3600
5	Non-FSIS contact phone number (evenings/...	(555) 555-5555

Update

# Food Security



# Food Security

- BSL-3 Laboratories
- Laboratory Response Network
- Select Agent registration
- Security enhancements
- Security clearances

# Food Security

- Liberty Shield
- Methods validation
- Screening and confirmation
- Throughput/enhanced efficiencies

# The Food Emergency Response Network (FERN)

# Food Emergency Response Network (FERN)

